

#### **Background**

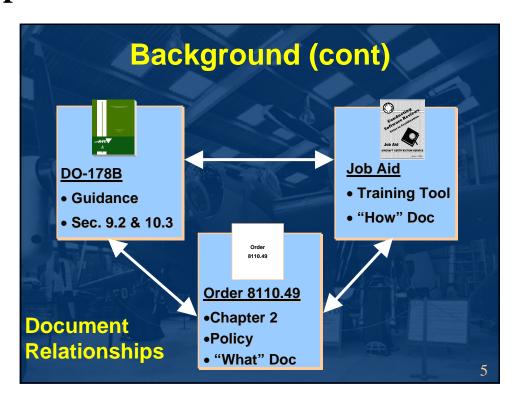
- Job Aid was first released in June 1998
- Original purpose of the Job Aid was to:
  - Standardize the Software Review Approach
  - Provide a Tool for FAA Engineers & Designees to Perform the Software Review
  - Improve the Quality of Software Reviews
  - Inform Applicants of the FAA's Approach

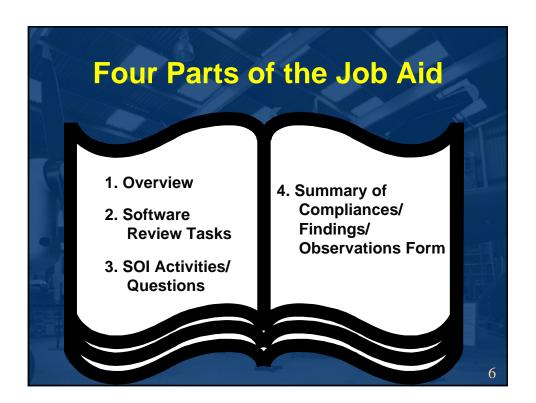
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#### **Background (cont)**

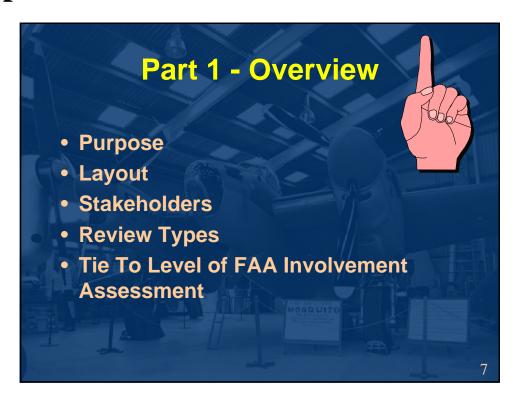
- Since 1998 a number of items have been completed (e.g., Order 8110.49, CAST papers, MC/DC tutorial, software training, etc.)
- Purpose of Job Aid update:
  - To address policy that has matured
  - To correct errors
  - To implement lessons learned

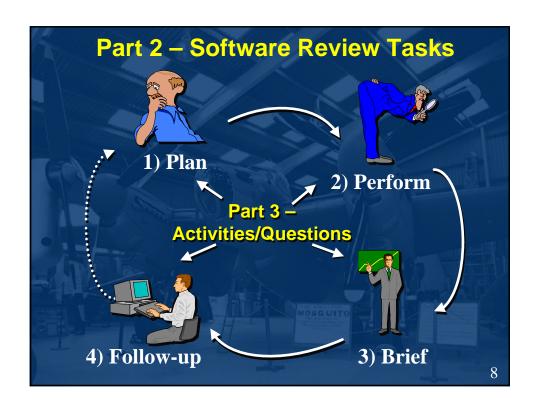
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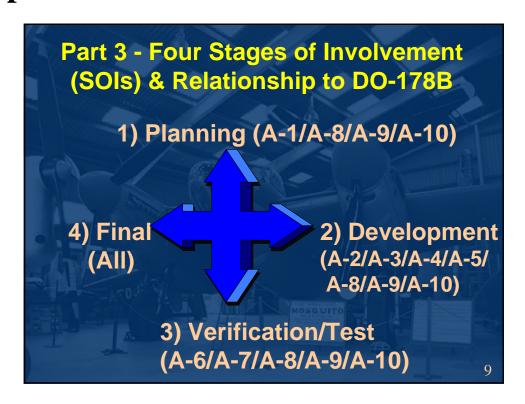


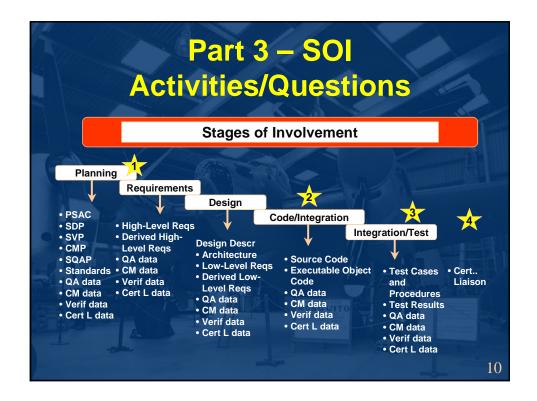


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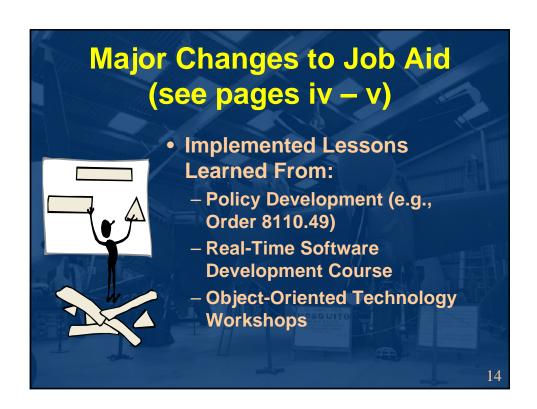




Part 3 – SOI Activities/Questions (cont)				
Item #	Evaluation Activity/Question	DO-178B objective		
1.1	Review all plans (PSAC, SCMP, SQAP, SDP, SVP, software tool plans, etc.). Based on your review of all the plans, consider the following questions:			
1.1.1	Has the planning data been signed and put under CM? Verify there is objective evidence of coordination (e.g., authorized signatures) from all organizations controlled and affected by the software plans.	A-1, #1-7		
1.1.2	Are plans and standards cited complete, clear, and consistent?	A-1, #1,7		

Part 4 – Summary Tables					
Ref #	Objective Summary (Numbers are DO- 178B section references)	Summary of Compliances/ Findings/Observations	Level	Job Aid Ref	
1-1	Software development and integral processes activities are defined. 4.1 a, 4.3		A/B/C/D	1.1, 1.3, 1.4, 1.6, 1.7, 1.8, 1.10, 1.11, 4.8	
1-2	Transition criteria, inter-relationships and sequencing among processes are defined. 4.1b,		A/B/C	1.1, 1.3, 1.4, 1.6, 1.7, 1.11, 4.8	
1-3	Software life cycle environment is defined. 4.1c		A/B/C	1.1, 1.2, 1.3, 1.4, 1.7, 1.10, 1.11, 4.8	





Major Changes to Job Aid (cont)				
<u>Change</u>	<u>Rationale</u>			
Combined Section 1-3	To condense and clarify			
Added Supplements 1, 2, 4	Additional information for reviewers			
Moved Appendix A (examples) to Supplement 3	To reduce size of Job Aid			
Added "Compliances" Concept	To document Compliances, in addition to Findings & Observations			
Removed Checkmark Column in Activities/Questions Tables	To address the checklist mentality			

Major Changes to Job Aid (cont)				
<u>Change</u>	Rationale			
Added 1.7.7 - 1.7.11 & 2.3 - 3.5	To implement questions from MC/DC Tutorial			
Added 1.10, 2.5, & 2.6	To address real-time software issues			
Added 1.11 & 2.16	To address object-oriented concerns			
Added 2.12 - 2.14 & 3.15	To address memory mgt, tools, partitioning/protection (as appropriate)			
Added 2.1.14, 2.15, & 3.6.2	To address RTOS issues (as appropriate)			

Major Changes to Job Aid (cont)				
<u>Change</u>	Rationale			
Moved 2.5 to 3.6	To put integration objectives in SOI #3 instead of SOI #2			
Added 3.7	To address data and control coupling analysis			
Replaced "ASI" with "QA/CM Team Member"	To reflect current paradigm of FAA review team			
Added References (App B)	To provide reference to relevant information			

